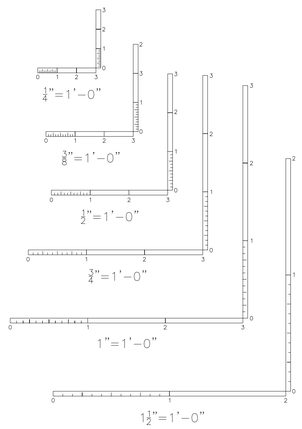
THOMAS JEFFERSON
NOAA
S 222

GENERAL NOTES

1. SEE REF 1 FOR STRUCTURAL DETAILS AND ADDITIONAL NOTES.
2. SEE REF 4 FOR LIST OF NAVIGATION LIGHTS AND MODEL NUMBERS
3. SEE REFS 6, 7, 8, 15 & 16 FOR ADDITIONAL INFORMATION.
4. NAVIGATION LIGHT SHILDS ARE TO BE PAINTED FLAT BLACK.
5. ALL SNIPES TO BE 1" X 45° UNLESS NOTED OTHERWISE.
6. △ PARTS LIST QUANTITIES REFLECT ITEMS FOR THE NEW ISSUANCE OF THIS DRAWING. FOR ORIGINAL PARTS QUANTITIES, SEE OBSOLETE REFERENCE DRAWINGS.
7. △ THIS PLAN MUST BE READ CONCURRENTLY WITH REFERENCE 16.
8. △ ALL WELDING TO BE CONTINUOUS.
9. △ ALL PIPES TO BE CAPPED AND SEAL WELDED.
10. △ WHERE CLARITY REQUIRES IT, ITEMS ARE MARKED NEW (N) OR EXISTING (E).



6	MISC DETAILS
5	YARDARM & DRESSING LINES
4	MISC SECTIONS & PLAN VIEWS
3	MISC SECTIONS & PLAN VIEWS
2	ELEVATIONS
1	TITLE SHEET

INDEX – MAIN MAST (170–6634908)

△ PARTS LIST

ITEM NO	QTY	SIZE	DESCRIPTION	MATERIAL	SPEC NO.	PART NO.	REMARKS	UNIT WT LBS
△ 4–P	4	SQ FT	PLATE 10.2# (1/4")	STEEL	A–36			10.2
△ 8–P	1		PLATE 20.4# (1/2")					20.4
△1 △ 16–P	5		PLATE 40.8# (1")					40.8
3–P			PLATE 7.65# (3/16")					7.65
1		LF	FLATBAR 2" X 3/8"	STEEL	A–36			2.6
2	–		3" X 1/4"					2.6
3	–		5" X 1/4"					4.3
4	–		6" X 5/16"					6.4
5	–	EA	ELBOW, 45°, 1–1/4", L.R. BW		A–234			.4
6	–		90°					.6
7	–	LF	PIPE, 1–1/4" SCH 80		A–53			2.3
8	–		3"					10.3
9	–		4"					15
10	–		6"					28.6
11	–		ANGLE 3" X 2" X 1/4"		A–36			4.1
12	–		5" X 3" X 1/4"					6.6
13	–		SQUARE BAR 3/4"					1.9
14	–	EA	BOLT, HEX HD 1/2–13UNC–2A		COML		1–1/2" LG	
15	–		NUT, SLF LKG 1/2–13UNC–2B					
16	–		WASHER, FLAT 1/2"					
17	–		FLANGE, 4", 125# S.O.; F.F.		A–181			13
△1 18	–		SCUTTLE, 18" RAISED	STL	COML	RWTQA	DRW.#805–M01890	41
19	–	LF	ROUND BAR 3/8" DIA	STL	A–36			.37
20	–	EA	CLEAT 8"	GALV	COML	689921	DONOVAN OR EQ CAT 1989 5/4 PG 389	
21	–		SHACKLE, 1/2" SNAP	SST		3913T54	MCMASTER/CARR OR EQ	
22	–		THIMBLE, 3/8"	GALV		615495	DONOVAN OR EQ CAT 1989 5/12 PG 426	
23	–		3" SINGLE BLOCK			618580	DONOVAN OR EQ CAT 1989 8/12 PG 559	
24	–		SNAP HOOK, QUICK ACTING	SST		3908T4	MCMASTER/CARR OR EQ CAT 95 PG 834	
25	–		RING,1–1/8"ID X 3/16"DIA ROD					
26	–		GRAB RING 3/16" DIA ROD					
27	–	LF	3/8" POLYESTER ROPE	POLY		3789T14	MCMASTER/CARR OR EQ CAT 95 PG 588	
28	–	EA	ROUND BAR 1/2" DIA	STL	A–36			.67
29	–		SWIVEL 3/8" LINK & JAW	GALV	COML	3553T18	MCMASTER/CARR OR EQ CAT 95 PG 516	
30	–		TURNBUCKLE 1/2" JAW & JAW			3001T34	MCMASTER/CARR OR EQ CAT 95 PG 445	
	–							
32	–		SHACKLE, 1/2" ANCHOR	GALV	COML	3558T49	MCMASTER/CARR OR EQ CAT 95 PG 530	
33	–	LF	FLG PL 10" X 3" X 1/4"	STL	A–36			11.03
	–							
35	–	LF	FLG PL 9" X 3" X 1/4"	STL	A–36			10.2
36	–	LF	FLATBAR 8" X 3/16"					8.5
37	–	LF	PIPE, 2" SCH 40	STEEL	A–53			5.02
38	–	EA	COUPLING 1", SCH 80		A–105			
△ 39	8	LF	PIPE, 1–1/4", SCH 40		A–53			2.27
40	–	EA	COPULING, 1–1/4", SCH 80		A–105		THREADED	
41	–	LF	PIPE, 3/4", SCH 40		A–53			1.13
42	–	EA	COUPLING, 3/4", THD		A–105			
△ 43	25	LF	PIPE, 1–1/2", SCH 40		A–53			
△ 44	7	LF	PIPE, 1", SCH 40		A–53			
45	–	LF	PIPE, 5"		A–53			
△ 46	3	LF	PIPE,4", SCH 40		A–53			
△ 47	44	LF	PIPE, 2–1/2" SCH 40		A–53			
△ 48	8	LF	PIPE, 6" SCH 40		A–53			

REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD
–	ALL	ALL	–	STARTING FROM REF 15, ADDED DETAILS FOR NEW ANTENNA FOUNDATIONS TO SUIT NEW ANTENNA ARRANGEMENT (REF 16). △ SYMBOL REFLECTS CHANGES MADE TO EXISTING STRUCTURE AS ENUMERATED ON THIS PLAN.	12–1–04	WRP
A	1	4–F	1	REVISED MATERIAL LIST TO REFLECT MODIFICATIONS ACCOMPLISHED UNDER ITEMS 301, 302 AND 501 OF NOAA SPEC EA133M–08–CN–0044.	5–1–08	RWF
	2	15–E	2	REVISED BODY OF DWG TO REFLECT AS–BUILT COND FOR ITEM 501.		
	2 4 6	9–D 25–A 43–A	3	REVISED BODY OF DWG TO REFLECT AS–BUILT COND FOR ITEM 301.		
	2 6	9–D 43–A	4	REVISED BODY OF DWG TO REFLECT AS–BUILT COND FOR ITEM 302.		

REFERENCES

NO	TITLE	DRAWING NO
1	STRL STDS	101–6634906
2	STRL MOD ADDY NO 15	101–6634874
3	STRL MOD ASSY NO 16	101–6634875
4	NAVIGATION LIGHTING SYSTEM	422–6634697
△ 5	ANTENNA ARRANGEMENT {OBSOLETE–FOR HISTORY ONLY}	405–6634712
6	MASTS, JACKSTAFFS & ENSIGN STAFFS	170–6634883
7	ELEC NAV SYS ELE WRG DIAGRAM	423–6634720
8	WINDSPEED/DIRECTION SYS ELE WRG DIAG	494–6634693
9	BONDING, GROUNDING & METHODS	406–6634696
10	SIGNAL HALYARD & DRESSING LINES	304–3184208
11	LIFELINES, HANDRAILS & STANCHIONS	612–6634889
12	BOAT HANDLING & STOWAGE	583–6634886
13	DOORS, HATCHES, WINDOWS & AIRPORTS	625–6634893
△ 14	MAIN MAST ARRANGEMENT & DETAILS, REV F	170–6634908–F
△ 15	MAIN MAST ARR'GT & DETS STRIPPED FOR RE–RIGGING	TJ–171–001
△ 16	ANTENNA ARRANGEMENT	TJ–171–003
17	KAHLENBERG MODEL T–3A,FIG.313 AIRHORN	3–5446

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OFFICE OF MARINE & AVIATION OPERATIONS

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P.O. BOX 965
ESSEX, CT 06426
TEL: (860) 767–9061

CONTRACT # 50ABNA000032
TAR–SSI–047(04)

DSGN	WRP	12–1–04
DWN	WRP	12–1–04
CHK	JAH	12–3–04
CHK	–	–/–/–

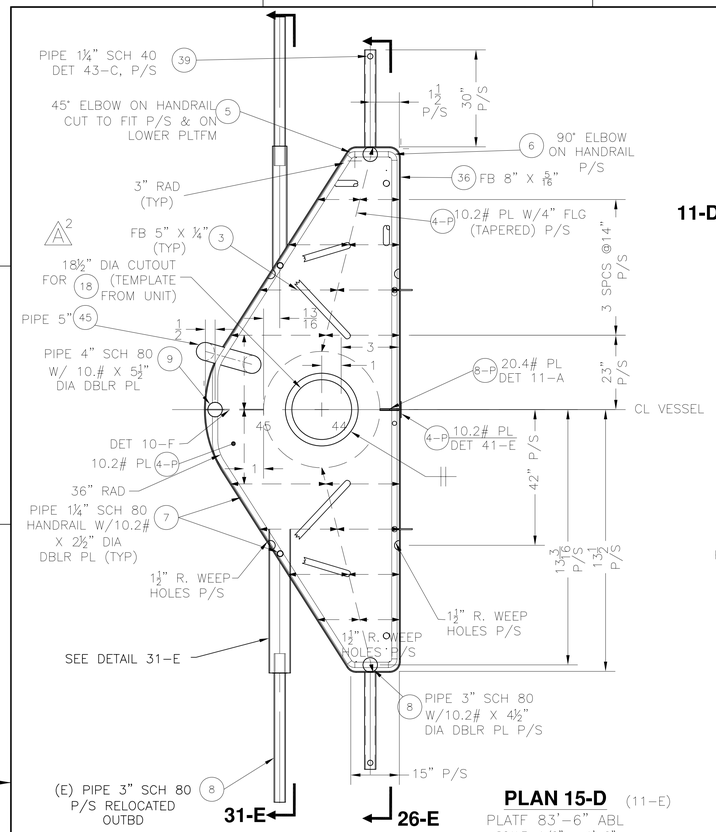
–
NOAA APPROVAL

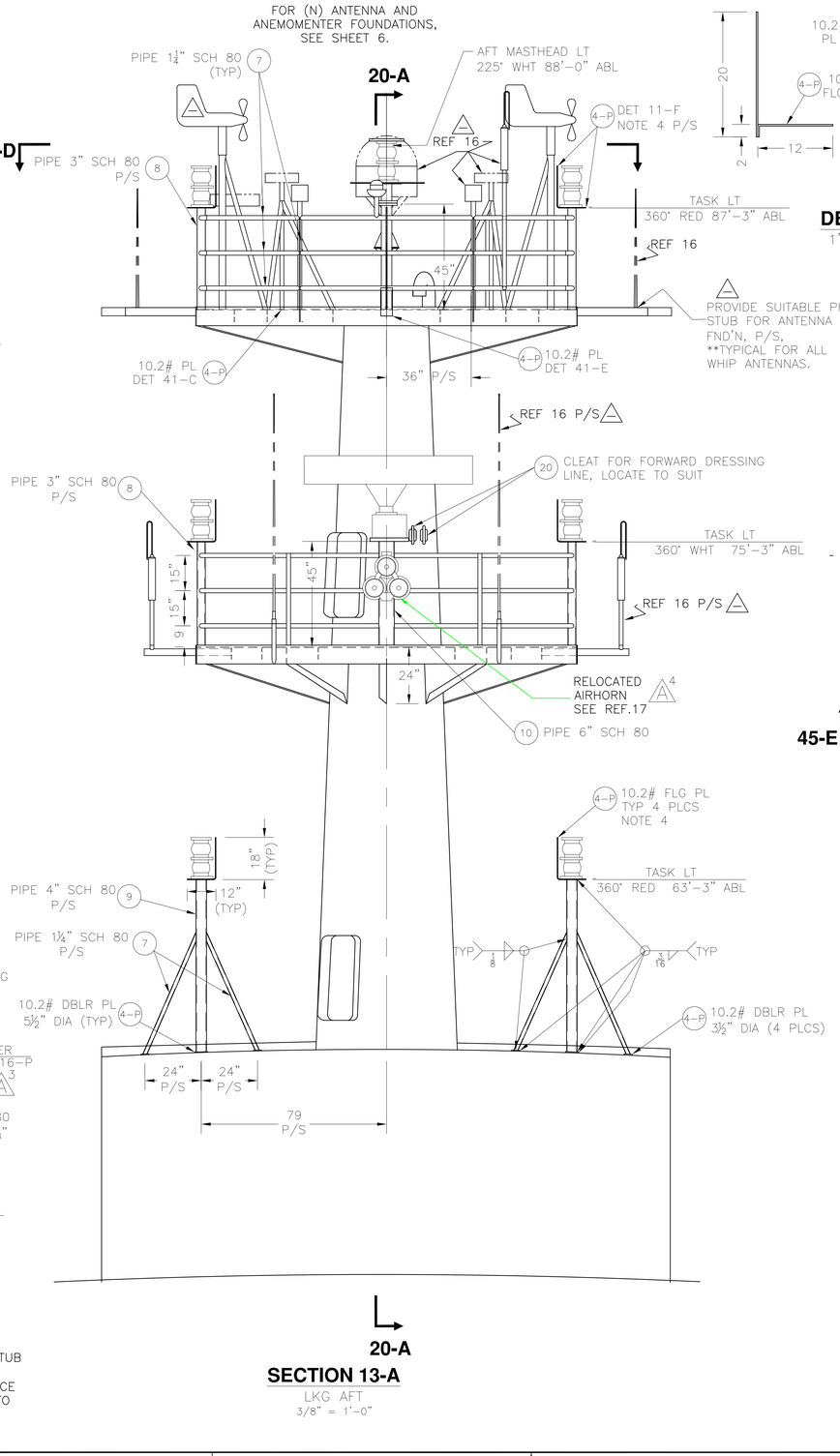
NOAA SHIP THOMAS JEFFERSON

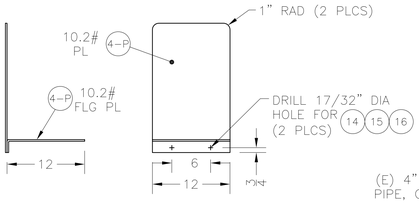
MAIN MAST
ARRANGEMENT & DETAILS

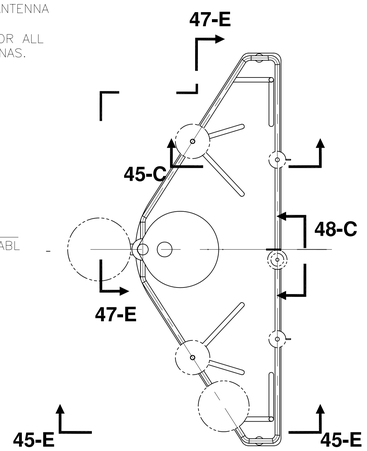
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ–171–002	A

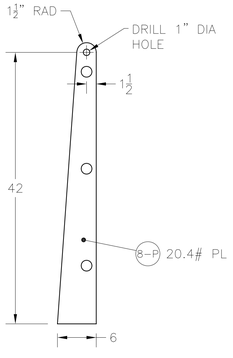
SCALE: AS SHOWN
CAD FILENAME TJ171002.dwg SHT 1 OF 6

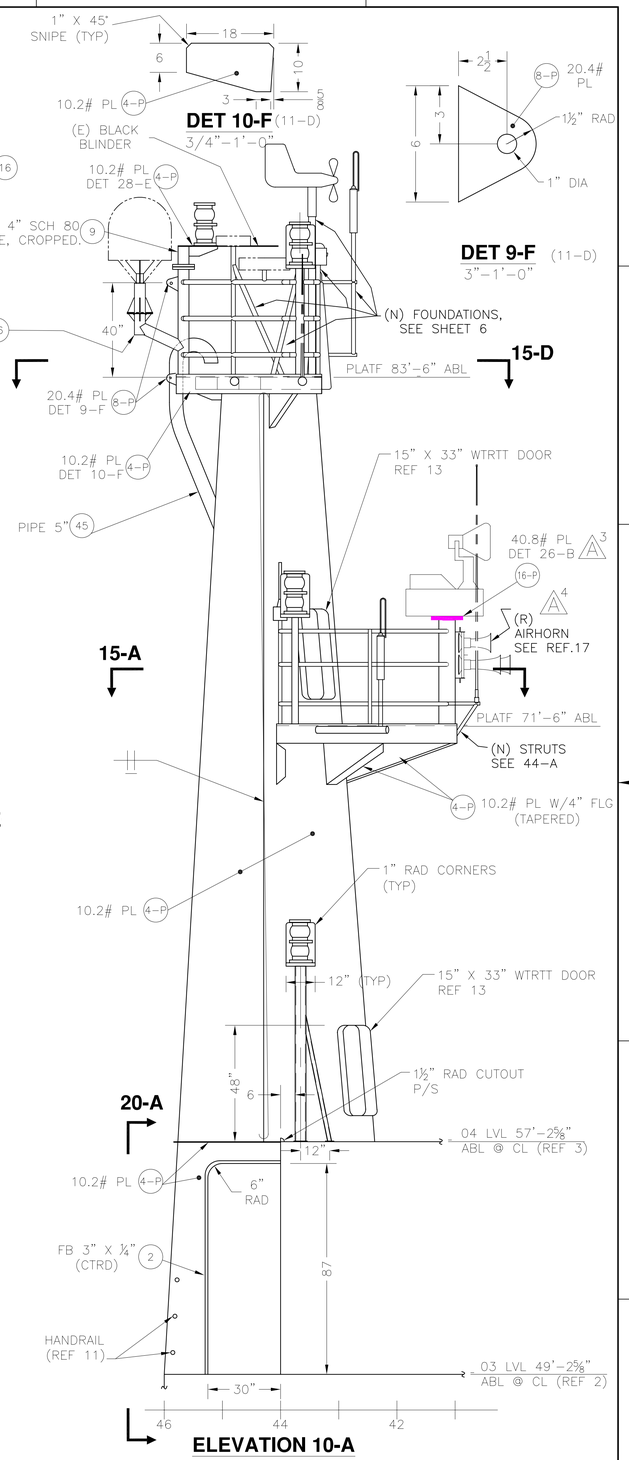

PIPE 1¼" SCH 40 DET 43-C, P/S
45° ELBOW ON HANDRAIL CUT TO FIT P/S & ON LOWER PLTFM
3" RAD (TYP)
FB 5" X ¼" (TYP)
18½" DIA CUTOUT FOR (18) (TEMPLATE FROM UNIT)
PIPE 5" (45)
PIPE 4" SCH 80 W/ 10.# X 5½" DIA DBLR PL
DET 10-F 10.2# PL (4-P)
36" RAD
PIPE 1¼" SCH 80 HANDRAIL W/10.2# X 2½" DIA DBLR PL (TYP)
1½" R. WEEP HOLES P/S
SEE DETAIL 31-E
(E) PIPE 3" SCH 80 P/S RELOCATED OUTBD
31-E
26-E
90° ELBOW ON HANDRAIL P/S
FB 8" X 5/16"
10.2# PL W/4" FLG (TAPERED) P/S
3 SPCS @14" P/S
20.4# PL DET 11-A
CL VESSEL
10.2# PL DET 41-E
PIPE 3" SCH 80 W/10.2# X 4½" DIA DBLR PL P/S
15" P/S
PLAN 15-D (11-E)
PLATF 83'-6" ABL
SCALE: 1/2" = 1'-0"
26-D
90° ELBOW ON HANDRAIL P/S
10.2# PL W/4" FLG (TAPERED) P/S
1½" RAD WEEP HOLE P/S
18" RAD X-BAND SCANNER MTG.PLATE PC.#16-P DETAIL 26-B
℄ VESSEL
PIPE 6" SCH 80 W/10.2# X 8⅝" DIA DBLR PL
PIPE 1¼" SCH 80 HANDRAIL W/10.2# X 2½" DIA DBLR PL (TYP)
3 SPCS @ 13" P/S
10.2# PL
(N) 1½" SCH 40
(N) PIPE 2 1/2" SCH 40 CAPPED END & 1" VERT STUB
FOR ANTENNA FND'N. PIPE CONTIUNOUS THRU FACE PLATE AS SHOWN, WELD TO FACE PLATE AND AT END.
PIPE 3" SCH 80 W/10.2# X 4½" DIA DBLR PL P/S
PLAN 15-A (11-D)
PLATF 71'-6" ABL SCALE: 1/2" = 1'-0"


FOR (N) ANTENNA AND ANEMOMENTER FOUNDATIONS, SEE SHEET 6.
PIPE 1¼" SCH 80 (TYP)
AFT MASTHEAD LT 225° WHT 88'-0" ABL
20-A
11-D
REF 16
DET 11-F NOTE 4 P/S
PIPE 3" SCH 80 P/S
TASK LT 360° RED 87'-3" ABL
REF 16
PROVIDE SUITABLE PIPE STUB FOR ANTENNA FND'N, P/S, **TYPICAL FOR ALL WHIP ANTENNAS.
10.2# PL DET 41-C
10.2# PL DET 41-E
36" P/S
REF 16 P/S
CLEAT FOR FORWARD DRESSING LINE, LOCATE TO SUIT
TASK LT 360° WHT 75'-3" ABL
REF 16 P/S
RELOCATED AIRHORN SEE REF.17
PIPE 6" SCH 80
10.2# FLG PL TYP 4 PLCS NOTE 4
TASK LT 360° RED 63'-3" ABL
PIPE 4" SCH 80 P/S
PIPE 1¼" SCH 80 P/S
10.2# DBLR PL 5½" DIA (TYP)
10.2# DBLR PL 3½" DIA (4 PLCS)
24" P/S
79 P/S
SECTION 13-A
LKG AFT
3/8" = 1'-0"









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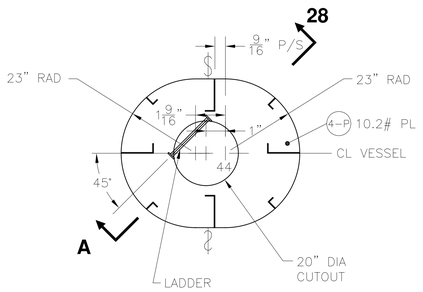
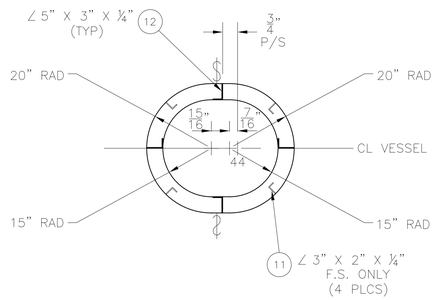
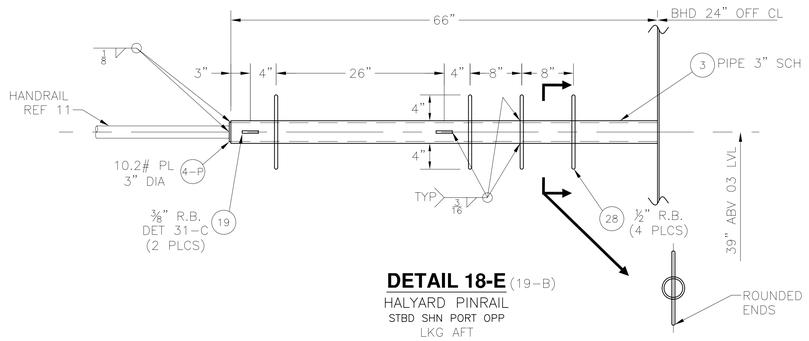
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-171-002	A
SCALE: AS SHOWN	CAD FILENAME TJ-171-002	SHT 2 OF 6	



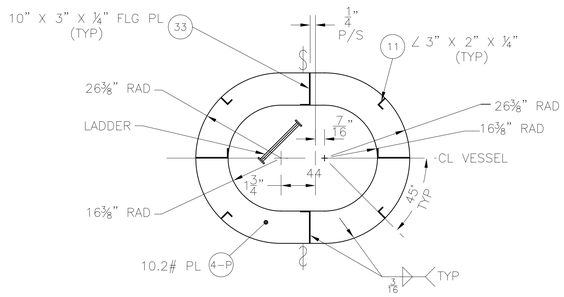
△2 E **PLAN 22-E** (17–C)
71'–6" ABL
FOR INFO NOT SHN SEE PLAN 22–C
½"=1'–0"



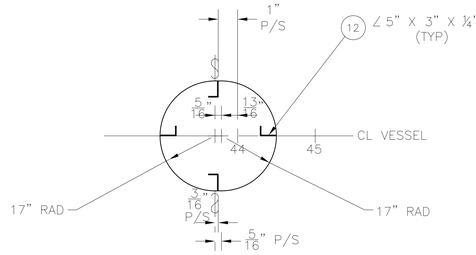
△2 E **PLAN 20-E** (17–D)
77'–6" ABL
FOR INFO NOT SHN SEE PLAN 22–C
½"=1'–0"



DETAIL 18-E (19–B)
HALYARD PINRAIL
STBD SHN PORT OPP
LKG AFT
1"=1'–0"

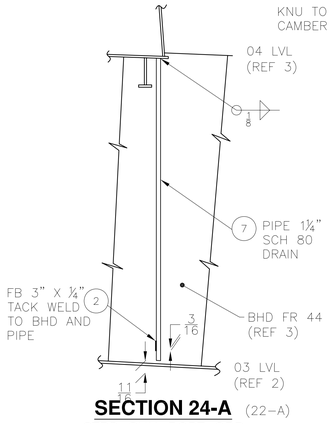


△2 E **PLAN 22-C** (17–C)
64'–6" ABL
1/2"=1'–0"

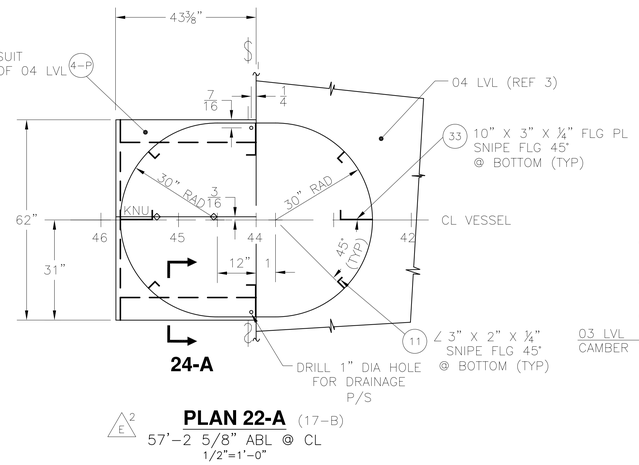


PLAN 20-C (17–D)
83'–6" ABL
1/2"=1'–0"

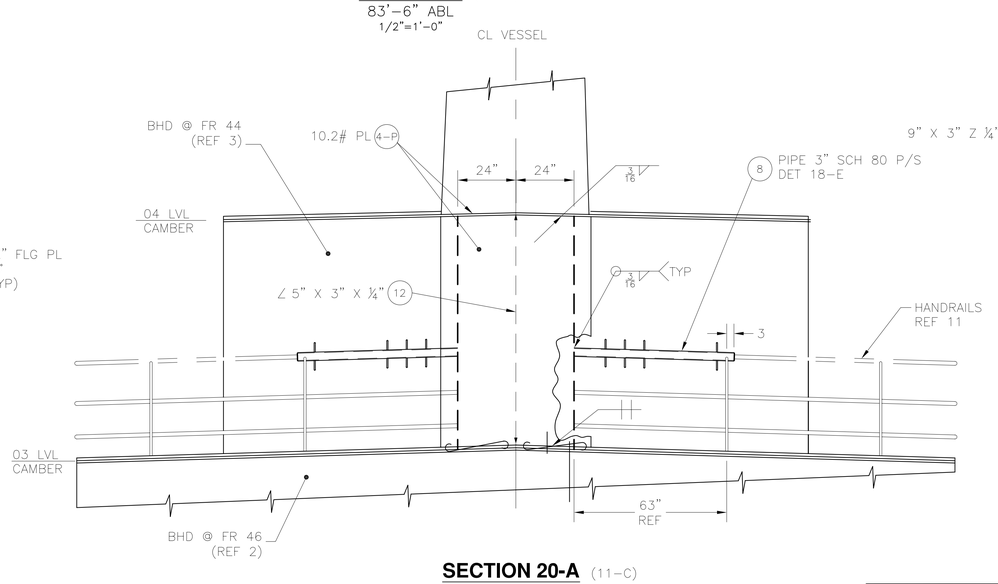
△2 E **ELEVATION 18-A** (13–E)
PLATFORMS NOT SHN FOR CLARITY
LKG TO PORT
¼"=1'–0"



SECTION 24-A (22–A)
STBD SHN PORT OPP
LKG FWD
½"=1'–0"



△2 E **PLAN 22-A** (17–B)
57'–2 5/8" ABL @ CL
1/2"=1'–0"



SECTION 20-A (11–C)
LKG FWD
3/8"=1'–0"

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TEL: (860) 767–9061

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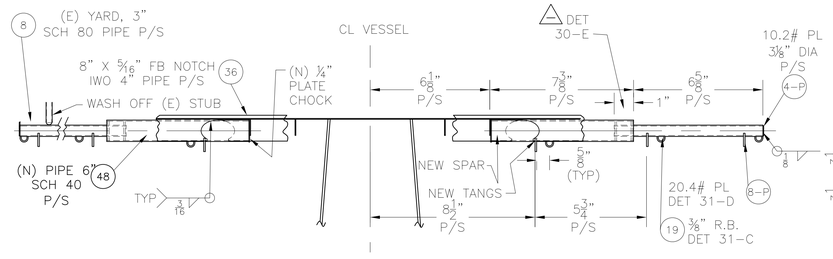
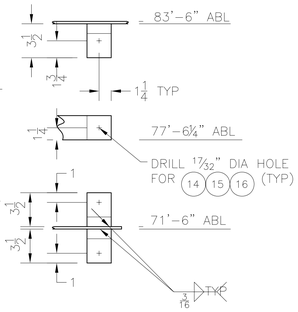
D	0YLJ5	TJ–171–002	A
SCALE: AS SHOWN	CAD FILENAME TJ-171-002		SHT 3 OF 6



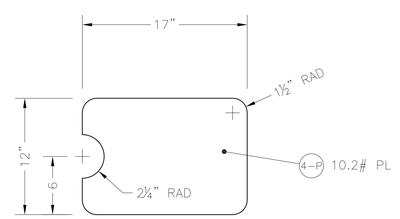
SECTION 31-E (15-F)

SYMMETRICAL ABOUT CL.
1/2"=1'-0"



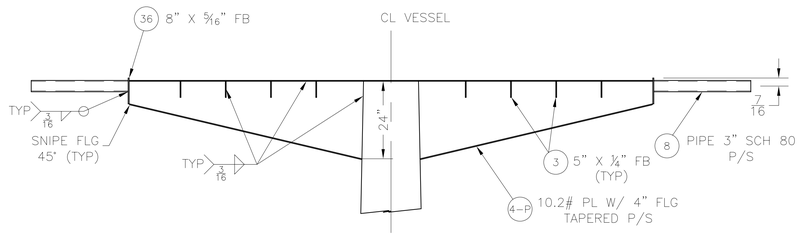
DETAIL 30-D

1 1/2"=1'-0"



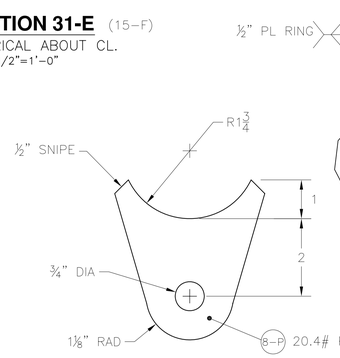
DETAIL 28-E (10-E)

1 1/2"=1'-0"



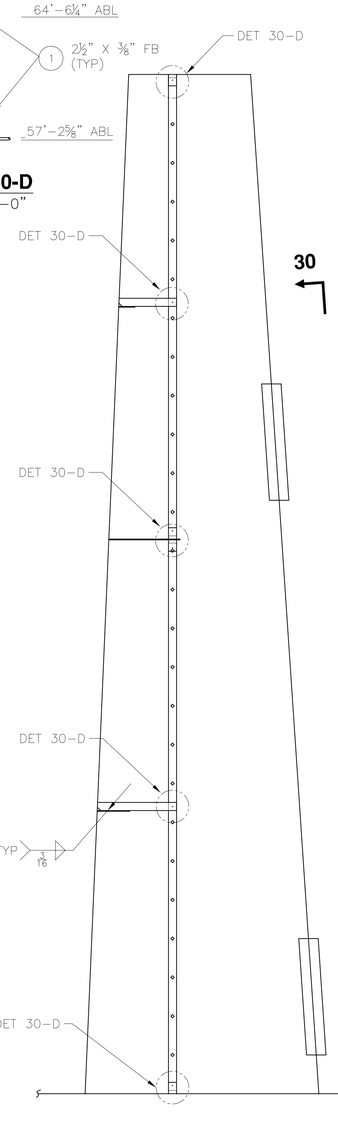
SECTION 26-E (15-F)

LKG AFT
1/2"=1'-0"



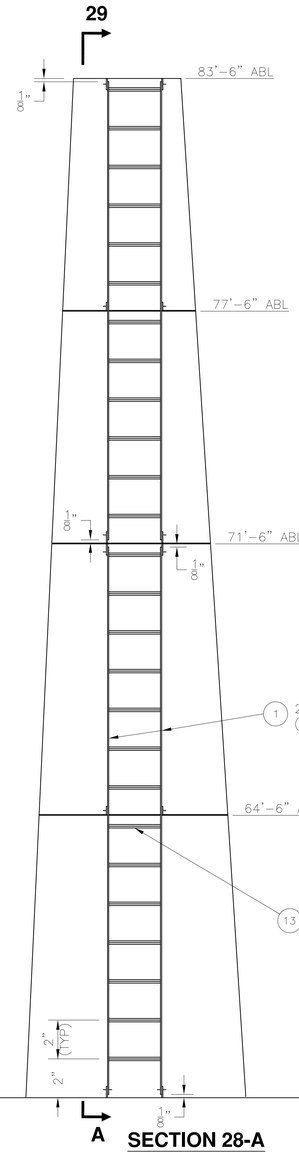
DETAIL 30-E (31-E)

1-1/2"=1'-0"



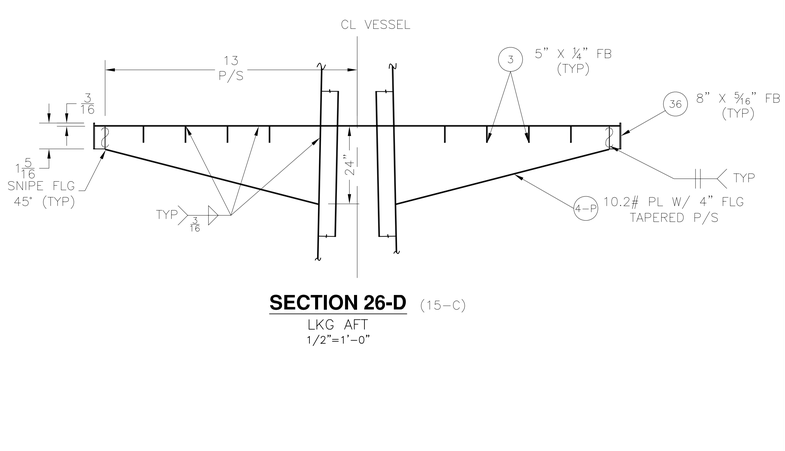
ELEVATION 29-A

1/2"=1'-0"



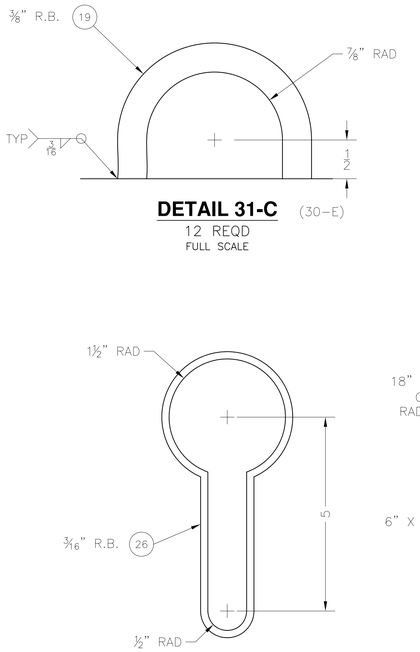
SECTION 28-A

FOR ORIENTATION OF LADDER
SEE PLAN 22-E
1/2"=1'-0"



SECTION 26-D (15-C)

LKG AFT
1/2"=1'-0"



DETAIL 31-C (30-E)

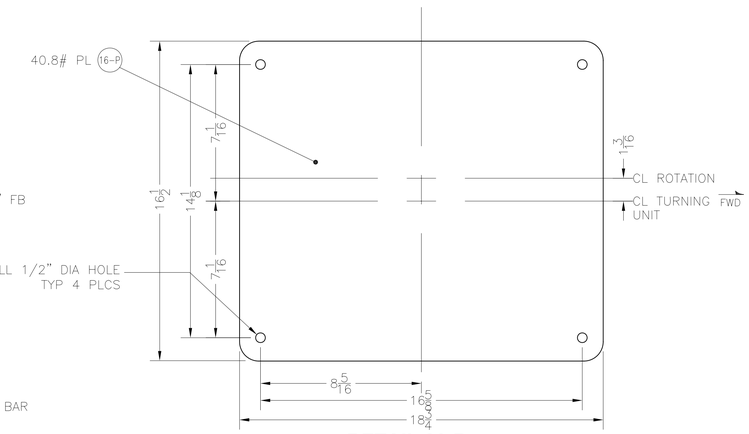
12 REQD
FULL SCALE

SECTION 30-A

1/2"=1'-0"

DETAIL 31-A (39-C)

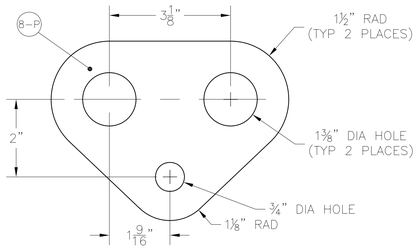
4 REQD
6"=1'-0"



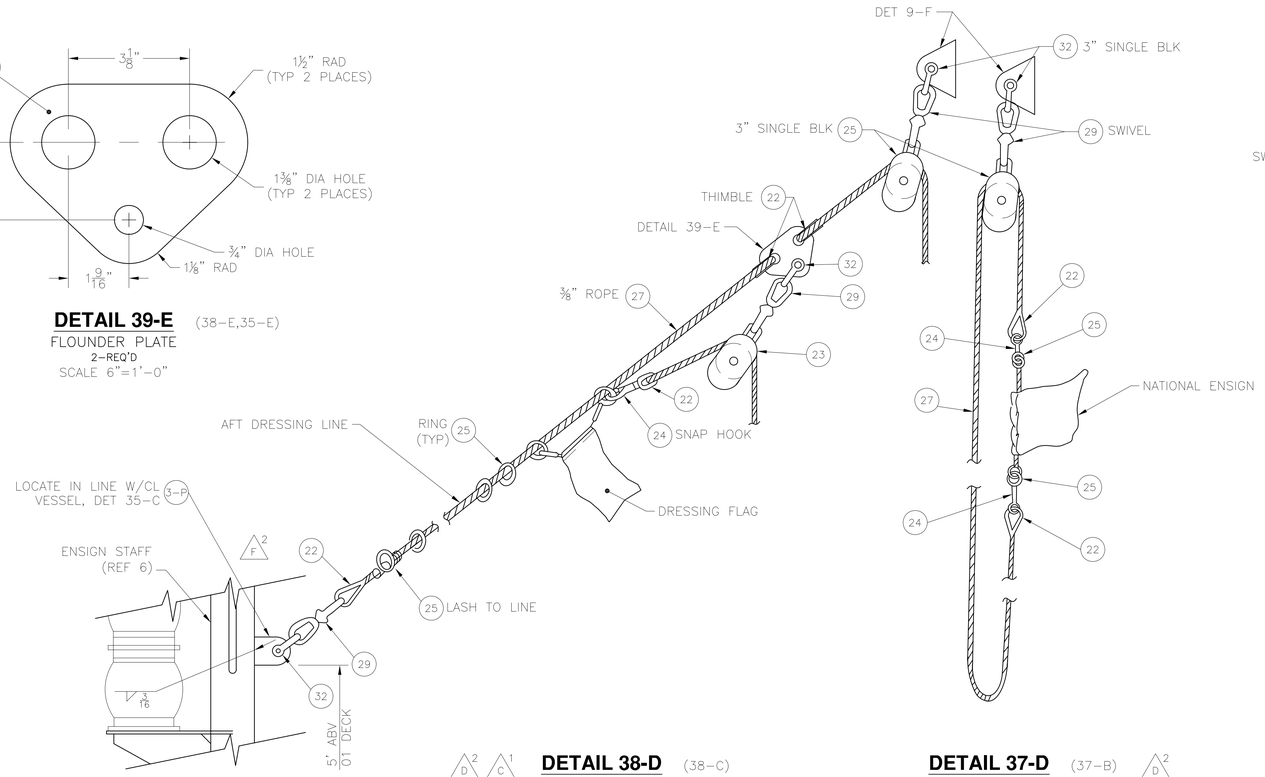
DETAIL 26-B (9-D)

3 A X BAND RADAR ANTENNA MOUNTING PL
6"=1'-0"

PREPARED BY: Seaworthy Systems, Inc. ESSEX, CT 06426 TEL: (860) 767-9061	SIZE D	CAGE CODE 0YLJ5	NOAA DRAWING NUMBER TJ-171-002 REV A
	SCALE: AS SHOWN	CAD FILENAME TJ-171-002	SHT 4 OF 6

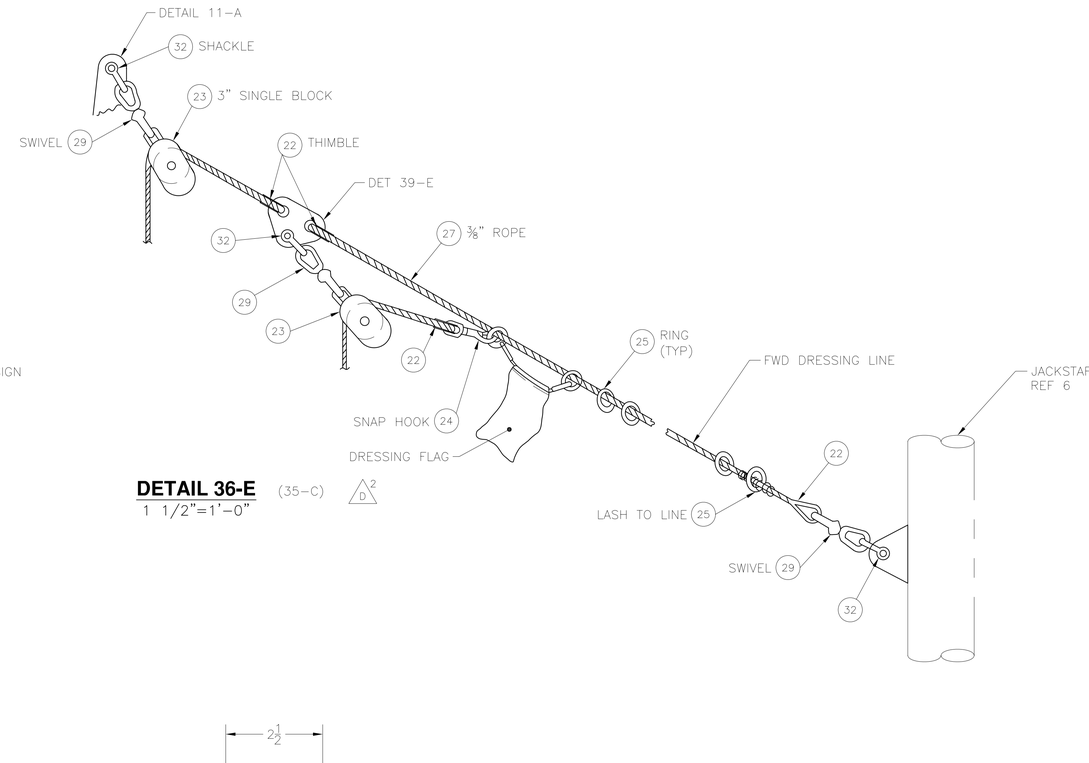


DETAIL 39-E (38-E,35-E)
FLOUNDER PLATE
2-REQ'D
SCALE 6"=1'-0"

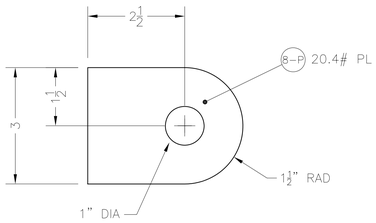


DETAIL 38-D (38-C)
1 1/2"=1'-0"

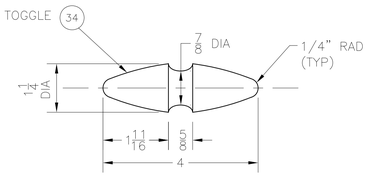
DETAIL 37-D (37-B)
1 1/2"=1'-0"



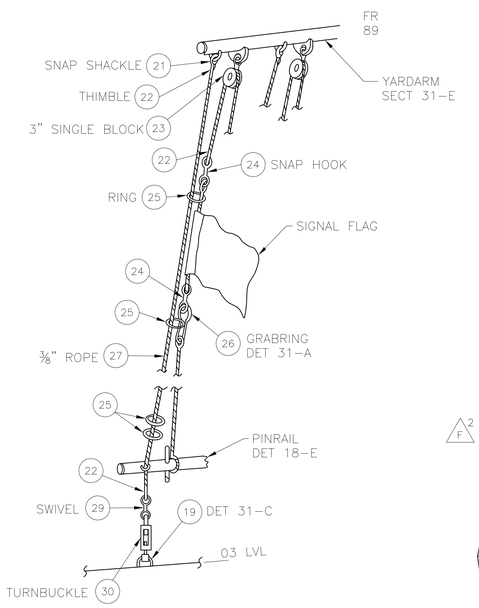
DETAIL 36-E (35-C)
1 1/2"=1'-0"



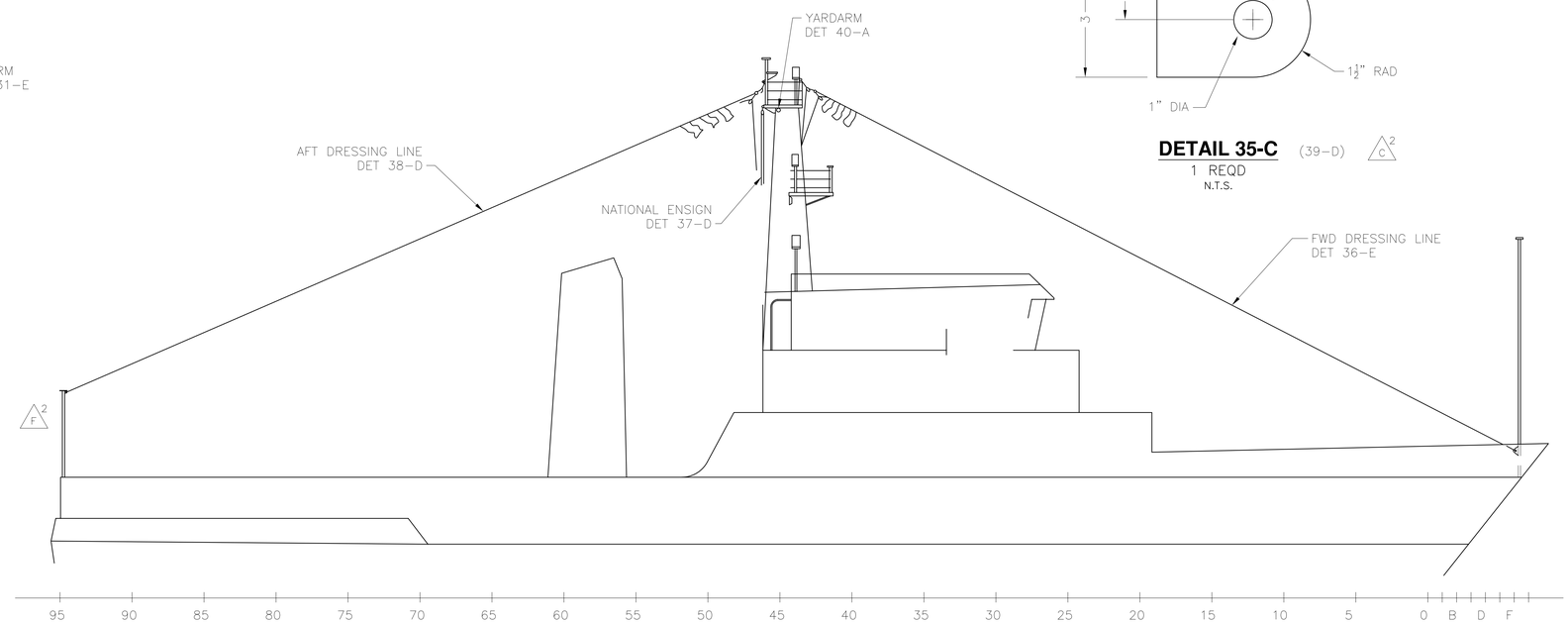
DETAIL 35-C (39-D)
1 REQD
N.T.S.



DETAIL 33-C (35-E)
5 REQD
N.T.S.



DETAIL 40-A
SIGNAL HALYARD
STBD SHN – PORT SIMILAR
LKG AFT
NTS


YARDARM DET 40-A
AFT DRESSING LINE DET 38-D
NATIONAL ENSIGN DET 37-D
FWD DRESSING LINE DET 36-E
2 F
95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 B D F

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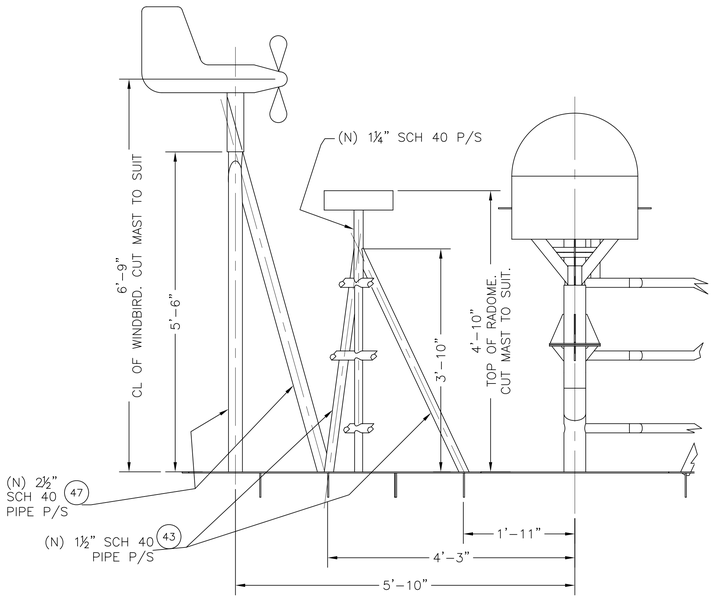
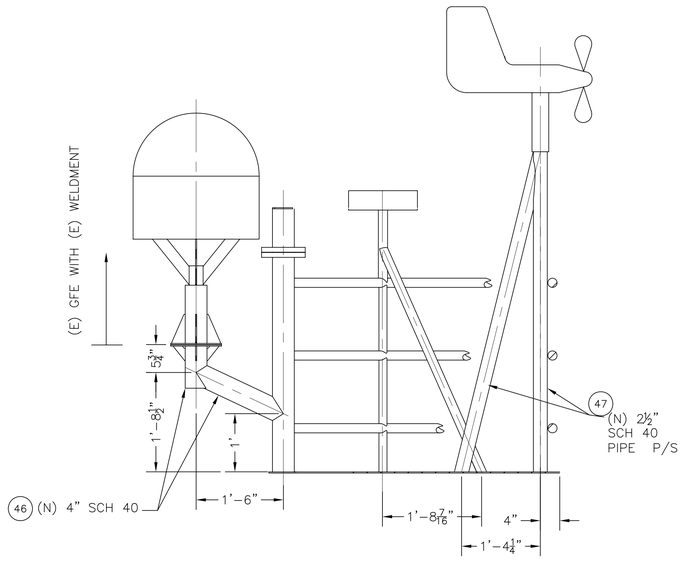


DETAIL 47-E

LKG FWD– (E) RAILINGS REMOVED FOR CLARITY (10-A)

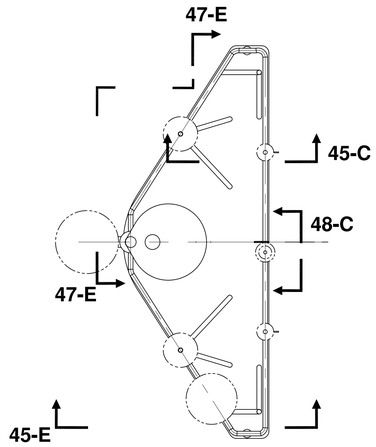
3/4" = 1'-0"



DETAIL 45-E

LKG PORT– (E) RAILINGS REMOVED FOR CLARITY (10-A)

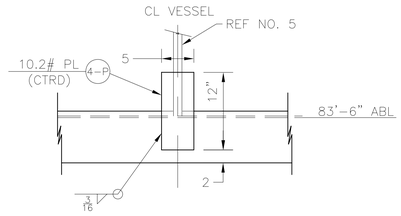
3/4" = 1'-0"



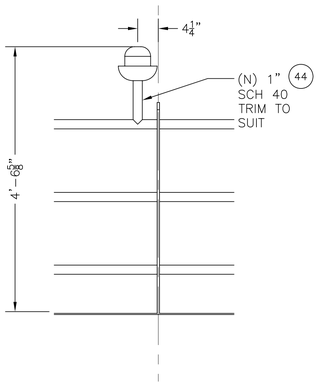
KEY PLAN 43-D

UPPER PLTFM

3/8" = 1'-0"



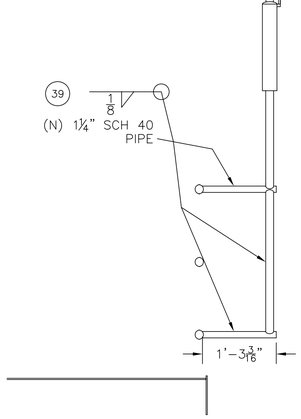
DETAIL 41-E (15-E)



DETAIL 48-C:

LKG AFT TO INMARSAT C

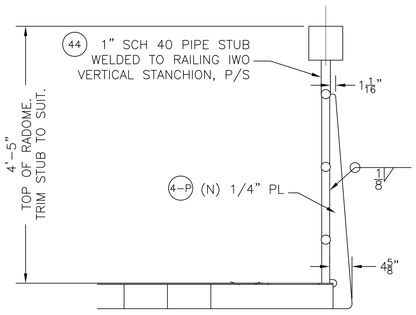
3/4" = 1'-0"



DETAIL 46-C

PORT BUSINESS VHF MAST: LKG PORT

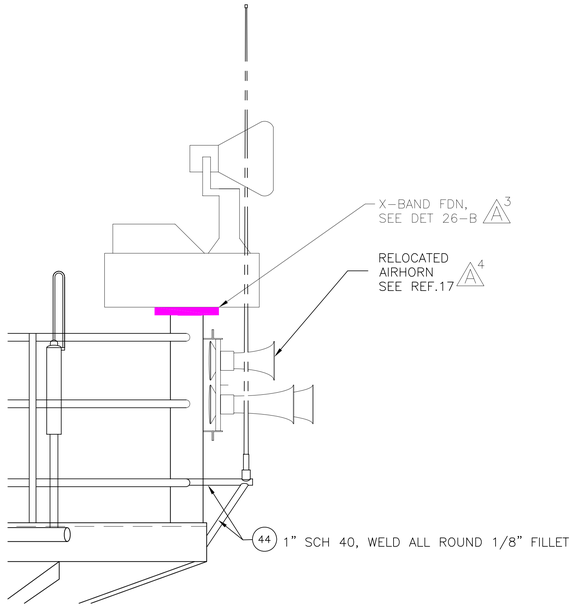
3/4" = 1'-0"



DETAIL 45-C: RIB STIFFENER P/S (10-A)

LKG PORT

3/4" = 1'-0"



DETAIL 44-A (10-A)

CH 70 FNDN, LKG PORT

3/4" = 1'-0"

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